

IPS-K-WM1

Wireless Microphone

Product Datasheet



Features

- 48 kHz / 16-bit digital audio optimized for clear and natural speech reproduction.
- 2.4 GHz digital wireless transmission with dedicated RF technology and digital encoding for stable connectivity.
- Flexible pairing with compatible receiving devices; one microphone connects to one receiving device at a time.
- Built-in electret microphone with an independent acoustic chamber and acoustic foam to help reduce noise and feedback.
- Color LCD displaying signal strength, pairing status, battery and charging status, operating channel, and volume.
- Adjustable microphone volume with memory function and one-touch mute control.
- Integrated laser pointer plus 3.5 mm audio and external microphone inputs for presentation flexibility.
- Built-in 340 mAh lithium-polymer battery with approximately 2-hour charging and at least 8 hours of operating time.

Description

The IPS-K-WM1 is a 2.4 GHz digital wireless microphone designed for classroom amplification, presentations, meetings, and mobile teaching.

Featuring 48 kHz / 16-bit digital audio transmission, dedicated RF technology, and digital encoding, it delivers clear and stable voice transmission while helping reduce background noise, crosstalk, and wireless interference.

A built-in color LCD provides at-a-glance visibility of signal strength, pairing status, battery and charging status, operating channel, and volume. The microphone also supports USB Type-C charging, adjustable volume with memory, one-touch mute, laser pointer functionality, and 3.5 mm audio and external microphone inputs.

Comes standard with a detachable wired neck-worn microphone that can be worn around the neck, clipped on, or held by hand.

- Smart power-saving design with automatic shutdown after an extended period without signal or connection.
- Lightweight pen-style body weighing less than 40 g for comfortable handheld use.

Applications

- Multimedia Classrooms
- Digital Classrooms
- Lecture Capture and Streaming Classrooms
- Meeting Rooms and Presentations
- Wireless Teaching Systems

Specifications

Digital Audio	
Sampling Resolution	16-bit
Sampling Rate	48 kHz
Frequency Response	100 Hz ~ 10 kHz (± 3 dB)
Total Harmonic Distortion	< 0.4% @ 94 dB SPL, 1 kHz
Signal-to-Noise Ratio	83 dB
System Latency	15 ms
Full-Scale Input Level	190 mVrms
Full-Scale Output Level	960 mVrms
Input/Output Gain Ratio	14.1 dB
Wireless	
Frequency Band	2.4 GHz
Channel Selection	Menu selection
Data Rate	2 Mbps
Transmit Power	> 10 dBm
Maximum Operating Range	
Power and Physical	10 m
Charging Interface	USB Type-C
Charging Input	5 V DC, 0.8~2 A recommended
Battery	3.7 V / 340 mAh lithium-polymer battery with protection circuit
Charging Time	Approximately 2 hours
Operating Time	≥ 8 hours
Weight	< 40 g, including built-in microphone
Standard accessories	Neck-worn wired microphone $\times 1$; Type-C charging cable $\times 1$
Environmental	
Operating Temperature	-4 °F ~ 140 °F (-20 °C ~ 60 °C)
Storage Temperature	-4 °F ~ 140 °F (-20 °C ~ 60 °C)

Specifications

wired neck-worn microphone	
Sensitivity	-43~-37 dB (std. -40 dB)
Operating Voltage	1.0~10 V
Output Impedance	≤ 2.2 kΩ
Current Consumption	≤ 500 μA
Signal to Noise Ratio	≥ 60 dB
Voltage Reduction	Change ≤ -3 dB (abs. ≤ 3 dB)
Max. Input SPL	≤ 110 dB
Dimensions	Φ9.7 mm × 5.0 mm
Directivity	Unidirectional
Environmental Compliance	RoHS 2.0
Operating Temp.	-22 °F ~ 158 °F (-30 °C ~ 70 °C)
Storage Temp.	-40 °F ~ 176 °F (-40 °C ~ 80 °C)

Note: Actual wireless range and battery operating time may vary depending on obstacles, the RF environment, volume settings, and usage conditions. Specifications are subject to change without notice.